AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1	1.	(Cancelled)
1	2.	(Currently Amended) The method of claim [[1]] 12, wherein sending the request
2	comprises sen	ding the request in a random access channel.
1	3.	(Original) The method of claim 2, wherein sending the request comprises sending
2	a predefined o	ode in a random access channel of an Enhanced General Packet Radio Services
3	system.	
1	4.	(Original) The method of claim 3, wherein sending the code comprises sending
2	the code in a	channel selected from the group consisting of a RACH, PRACH, and CPRACH.
1	5.	(Cancelled)
1	6.	(Currently Amended) The method of claim 5, A method of establishing a call in a
2	wireless netw	ork, comprising:
3		sending a request for a packet-switched call over the wireless network;
4		communicating control signaling in a traffic channel of the wireless network to
5	establish the r	packet-switched call; and
6		retrieving a pre-assigned code to send in the request,
7		wherein retrieving the pre-assigned code comprises retrieving a random access
8	channel mobi	le station code.
1	7.	(Currently Amended) The method of claim [[1]] 12, wherein communicating the
2	control signal	ing comprises communicating the control signaling in a packet data traffic channel.

1	8.	(Original) The method of claim 7, wherein communicating the control signaling
2	comprises co	mmunicating the control signaling in PDTCH bursts of an Enhanced General Packet
3	Radio Servic	es system.
1	9.	(Currently Amended) The method of claim 7, A method of establishing a call in a
2	wireless netw	vork, comprising:
3	•	sending a request for a packet-switched call over the wireless network; and
4		communicating control signaling in a traffic channel of the wireless network to
5	establish the packet-switched call,	
5		wherein communicating the control signaling comprises communicating the
7	control signa	ling in a packet data traffic channel,
8		wherein communicating the control signaling comprises communicating the
9	control signa	ling in a packet data traffic channel mapped to a dedicated physical channel.
1	10.	(Original) The method of claim 9, further comprising communicating bearer
2	traffic in ano	ther traffic channel mapped to the dedicated physical channel.
1	11.	(Original) The method of claim 10, wherein communicating the control signaling
2	comprises co	mmunicating the control signaling in a PDTCH, and wherein communicating the
3	bearer traffic	comprises communicating the bearer traffic in a TCH, the PDTCH and TCH
4	defined accor	rding to an Enhanced General Packet Radio Services protocol.
1	12.	(Currently Amended) The method of claim-1, A method of establishing a call in a
2	wireless netw	vork, comprising:
3		sending a request for a packet-switched call over the wireless network; and
4		communicating control signaling in a traffic channel of the wireless network to
5	establish the	packet-switched call,
6		wherein communicating the control signaling comprises communicating Session
7	Initiation Pro	tocol messages in the traffic channel.

l	13.	(Previously Presented) The method of claim 12, wherein communicating the
2	control signal	ling comprises communicating a Session Initiation Protocol Invite request in the
3	traffic channe	el.
l	14.	(Currently Amended) The method of claim 1, further comprising A method of
2	establishing a	call in a wireless network, comprising:
3		sending a request for a packet-switched call over the wireless network;
1		communicating control signaling in a traffic channel of the wireless network to
5	establish the	packet-switched call; and
5		sending a release message to terminate the packet-switched call in a traffic
7	channel.	
l	15.	(Previously Presented) The method of claim 14, wherein sending the release
2	message com	prises sending a Session Initiation Protocol Bye message in the traffic channel.
l	16.	(Currently Amended) The method of claim 1, further comprising A method of
2	establishing a	call in a wireless network, comprising:
3		sending a request for a packet-switched call over the wireless network;
4		communicating control signaling in a traffic channel of the wireless network to
5	establish the	packet-switched call; and
5		sending quality-of-service related messages in a traffic channel.
l	17.	(Original) The method of claim 16, wherein sending the quality-of-service related
2	messages con	nprises sending Resource Reservation Protocol messages.
1	18.	(Currently Amended) The method of claim [[1]] 12, wherein communicating the
2	control signal	ling comprises communicating the control signaling in PDTCH bursts, the method
3	further comprising communicating bearer traffic in TCH bursts.	

19. (Currently Amended) The method of claim [[1]] 12, wherein communicating the 1 control signaling comprises communicating the control signaling in PDTCH bursts, the method 2 further comprising communicating bearer traffic in PDTCH bursts. 3 20. (Cancelled) 1 (Currently Amended) The article of claim [[20]] 22, wherein the instructions 1 21. when executed cause the controller to send the control signaling selected from the group 2 consisting of RACH, PRACH, and CPRACH. 3 1 22. (Currently Amended) The article of claim 20, wherein the instructions when executed cause the controller to further An article comprising one or more storage media 2 containing instructions that when executed cause a controller to: 3 send control signaling to request a channel for a packet-switched call over a . 4 5 wireless network; add a predetermined code into the control signaling to identify the call as a 6 packet-switched call; and 7 8 communicate packet-switched call control signaling in traffic channels of the wireless network. 9 (Currently Amended) The article of claim [[20]] 22, wherein the instructions 1 23. when executed cause the controller to communicate the packet-switched call control signaling by 2 communicating Session Initiation Protocol messages in traffic channels of the wireless network. 3 (Original) The article of claim 23, wherein the instructions when executed cause 1 24. the controller to communicate the Session Initiation Protocol messages in PDTCH bursts of a 2 3 General Packet Radio Services system. (Original) The article of claim 23, wherein the instructions when executed cause 25. 1 the controller to communicate a Session Initiation Protocol Invite message. 2

1	26.	(Original) The article of claim 25, wherein the instructions when executed cause
2	the controlle	r to receive response messages to the Invite message.
1	27.	(Original) The article of claim 23, wherein the instructions when executed cause
2	the controlle	r to communicate a Session Initiation Protocol Bye message to release a call.
1	28.	(Original) The article of claim 23, wherein the instructions when executed cause
		r to communicate messages to provide a supplementary service.
2	me controlle	to communicate messages to provide a supplementary service.
1	29. –	30. (Cancelled)
1	31.	(Currently Amended) The mobile station of claim 30, A mobile station for use in
· 2	a wireless co	mmunications system having base stations, comprising:
3		a storage element storing a predetermined code associated with packet-switched
4	calls; and	
5		a controller to send control signaling to one of the base stations over a wireless
6	link to set up	a packet-switched call,
7		the control signaling containing the predetermined code, the predetermined code
8	to identify th	e call as a packet-switched call,
9		wherein the control signaling comprises a random access channel, the random
10	access chann	nel containing the predetermined code,
11		wherein the random access channel comprises a packet random access channel,
12	the packet ra	ndom access channel containing the predetermined code.
1	32.	(Previously Presented) The mobile station of claim 31, wherein the packet
2	random acce	ss channel comprises a COMPACT packet random access channel, the COMPACT
3	packet rando	m access channel containing the predetermined code.
	22	
1	33.	(Cancelled)

1	34.	(Previously Presented) A radio network control system, comprising:
2		an interface to a wireless link capable of communicating with a mobile station;
3	and	
4		a controller adapted to receive a request to set up a packet-switched call over the
5	wireless link,	
6		the controller further adapted to assign a logical channel combination in response
7	to the request,	
8		wherein the logical channel combination comprises TCH + FACCH + SACCH +
9	PDTCH + PA	CCH + PTCCH.
1	35.	(Previously Presented) The radio network control system of claim 34, wherein
2	the controller	is adapted to communicate Session Initiation Protocol messages in PDTCH bursts.
1	36.	(Original) The radio network control system of claim 34, wherein the controller
2	is adapted to o	communicate a success indication of a packet-switched call session in a PACCH
3	burst.	
1	37.	(Original) The radio network control system of claim 34, wherein the controller
2	is adapted to o	communicate radio resource management signaling in a PACCH burst to indicate a
3	•	cket-switched call.
1	38.	(Cancelled)

I	39.	(Currently Amended) the data signal of claim 38, wherein the instructions when
2	executed cau	se the system to further A data signal embodied in a carrier wave and containing
3	instructions t	hat when executed cause a system in a wireless network to:
4		receive control signaling to set up a packet-switched call over the wireless
5	network, the	control signaling carried in a first traffic channel;
6		establish the packet-switched call over the wireless network; and
7		communicate bearer data in a second traffic channel.
1	40.	(Original) The data signal of claim 39, wherein the control signaling is carried in
2	a PDTCH and	d the bearer data is carried in a TCH.
1	41.	(Currently Amended) The data signal of claim 38, wherein the instructions when
2	executed cau	se the system to further A data signal embodied in a carrier wave and containing
3	instructions t	hat when executed cause a system in a wireless network to:
4		receive control signaling to set up a packet-switched call over the wireless
5	network, the	control signaling carried in a first traffic channel;
6		establish the packet-switched call over the wireless network; and
7		communicate bearer data in the first traffic channel.
1	42.	(Currently Amended) The method of claim 1, A method of establishing a call in a
2	wireless netw	vork, comprising:
3		sending a request for a packet-switched call over the wireless network; and
4		communicating control signaling in a traffic channel of the wireless network to
5	establish the	packet-switched call,
6		wherein communicating the control signaling in the traffic channel comprises
7	communicati	ng a control message in the traffic channel, the control message according to a
8	protocol for e	establishing a packet-switched call over an Internet Protocol network.

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- 1 43. (Currently Amended) The data signal of claim [[38]] 39, wherein receiving the control signaling comprises receiving a Session Initiation Protocol message carried in the first traffic channel.
- 1 44. (Currently Amended) The data signal of claim [[38]] 41, wherein receiving the control signaling comprises receiving a control message carried in the first traffic channel, the control message according to a protocol for establishing a packet-switched call over an Internet Protocol network.
- 1 45. (Previously Presented) The article of claim 21, wherein the predetermined code comprises a mobile station code.